

Fig. 1

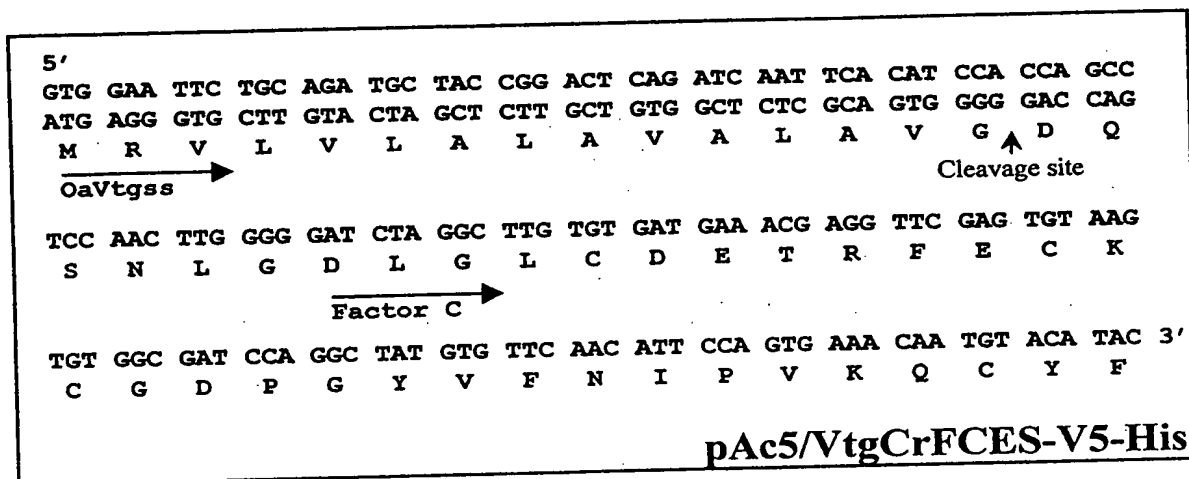


Fig. 2A

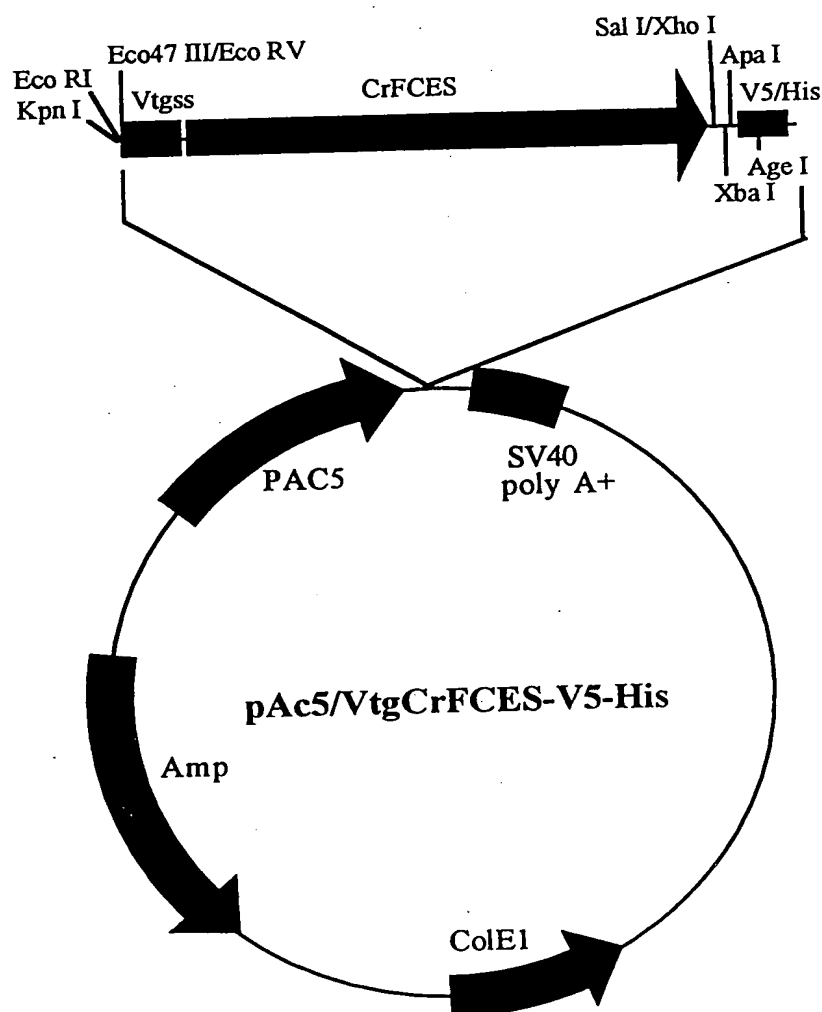
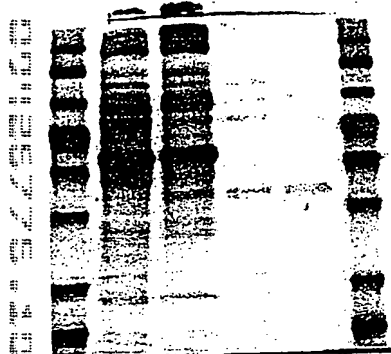


Fig. 2B

Coomassie Blue-stained
SDS-PAGE

M 1 2 3 4 M



Western Blot using
INDIA-His-HRP

M 1 2 3 4

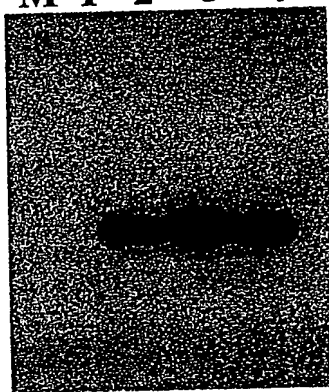
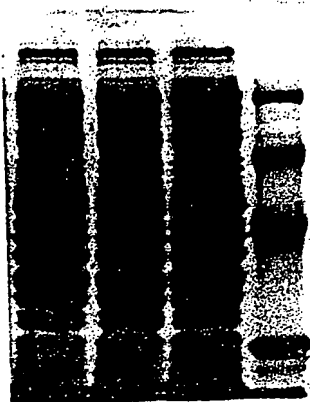


Fig. 3A

1 2 3 M



1 2 3 M

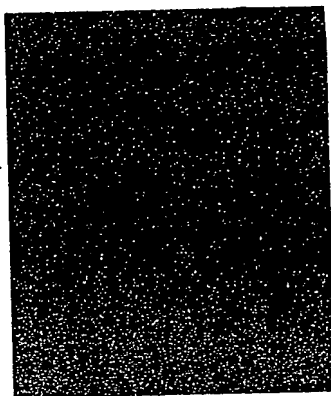


Fig. 3B

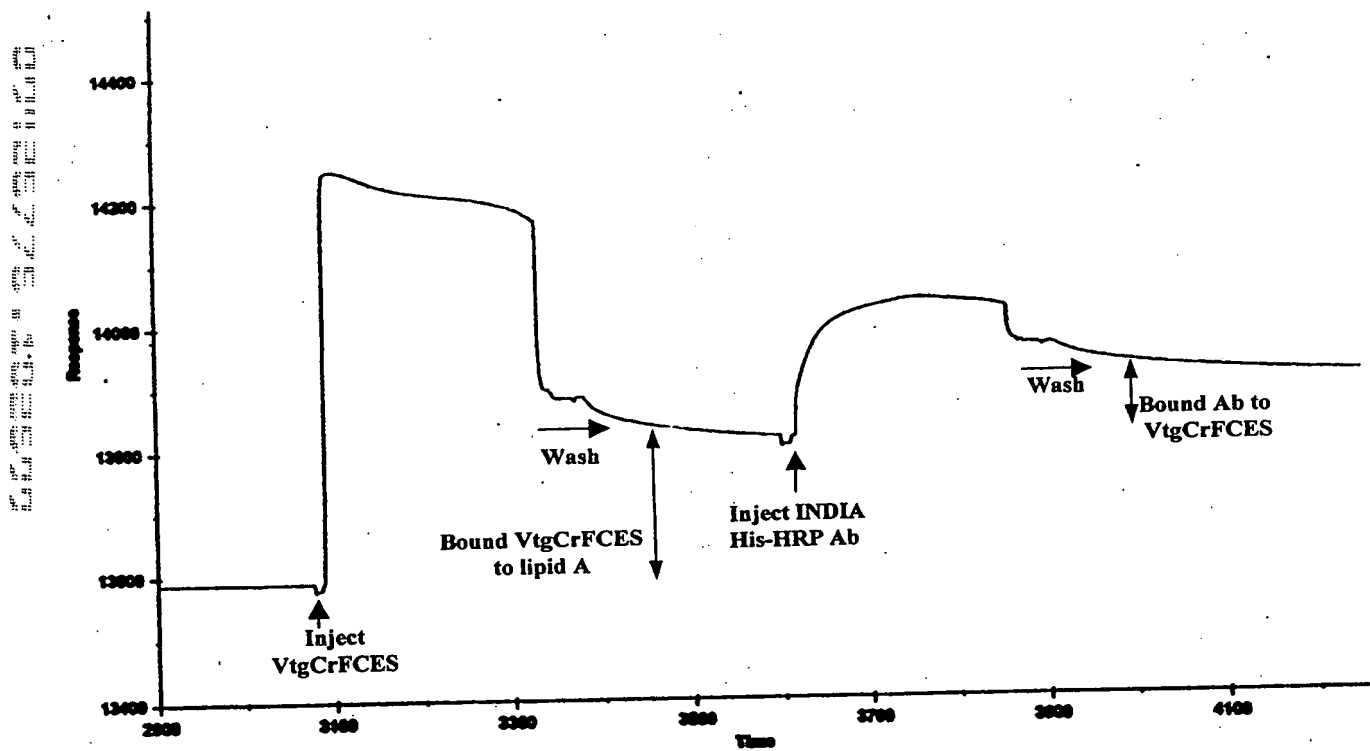


Fig. 4

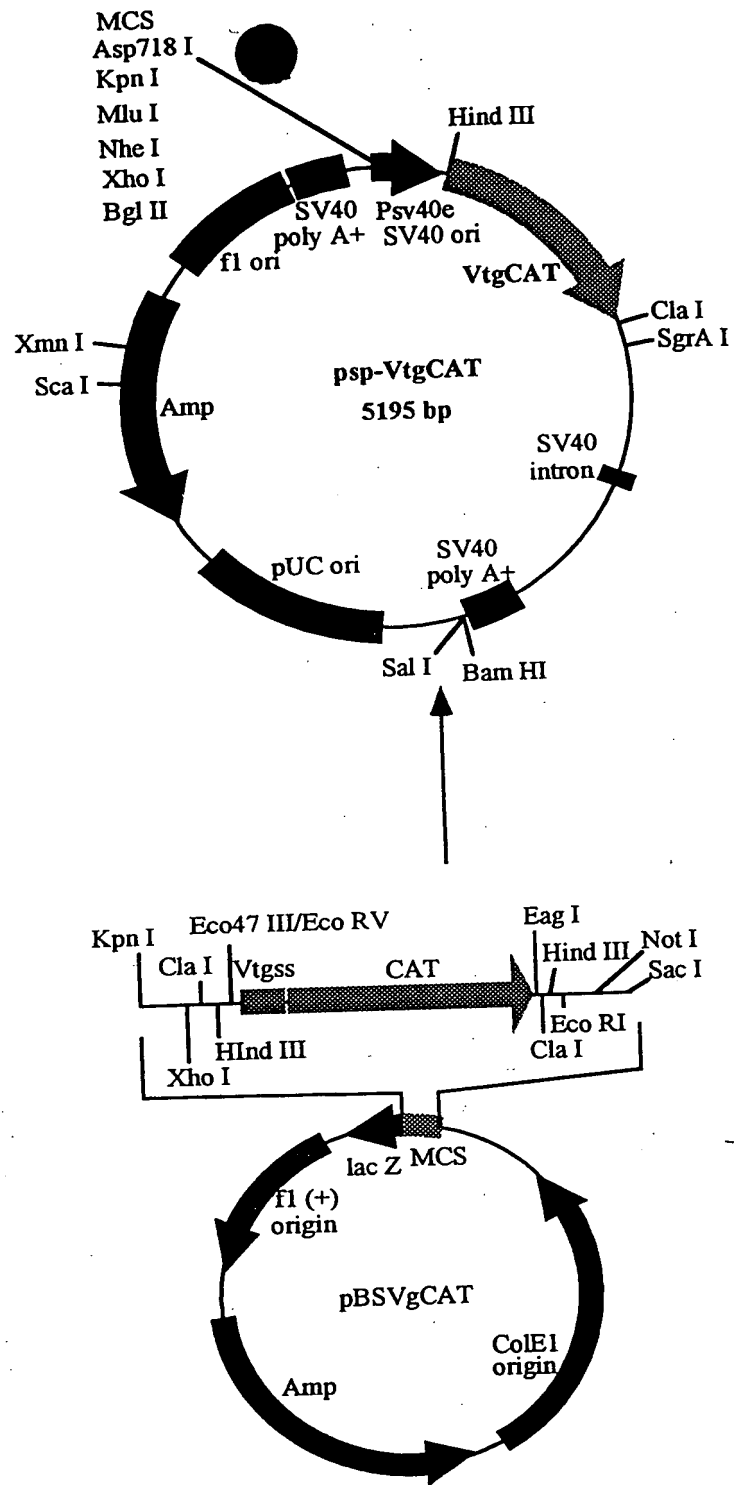
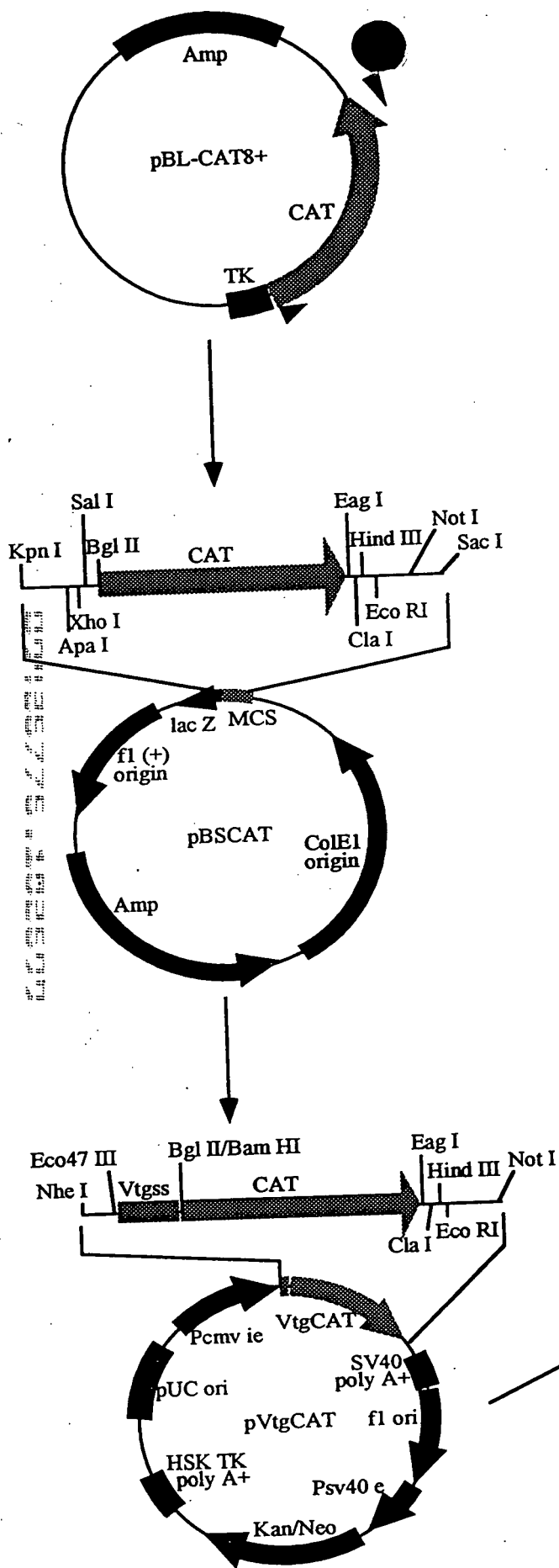


Fig. 5A

5'

Hind III Eco RV/Eco 47III
 ATC GAT AAG CTT GAT GCT ACC GGA CTC AGA TCA ATT CAC ATC CAC CAG CC
 ATG AGG GTG CTT GTA CTA GCT CTT GCT GTG GCT CTC GCA GTG GGG GAC CAG
 M R V L V L A L A V A L A V G D Q
 OaVtgss → Cleavage site

Bgl II/Bam HI
 TCC AAC TTG GGG GAT CTG CTG GAG AAA AAA ATC ACT GGA TAT ACC ACC GTT
 S N L G D L L Q K K V T G W T T V
 CAT

... .. GGC GGG GCG TAA TTT TTT TAA GGC Eag I GCC GAT GCG ACG
 G G A ***

Cla I
 GTA TCG ATA ACT TGA TAT CG 3'
Hind III

pBSVtgCAT

Fig. 5B

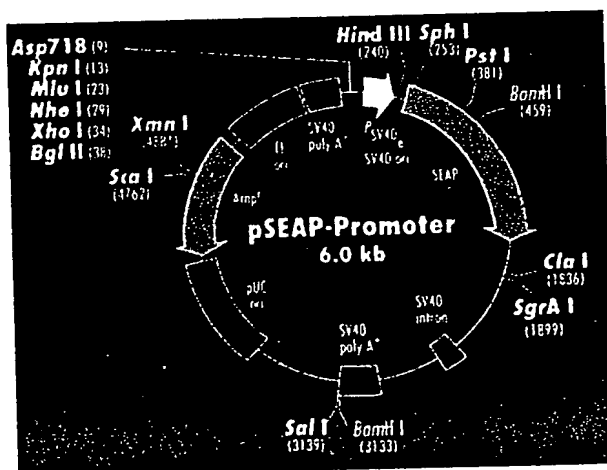


Fig. 5C

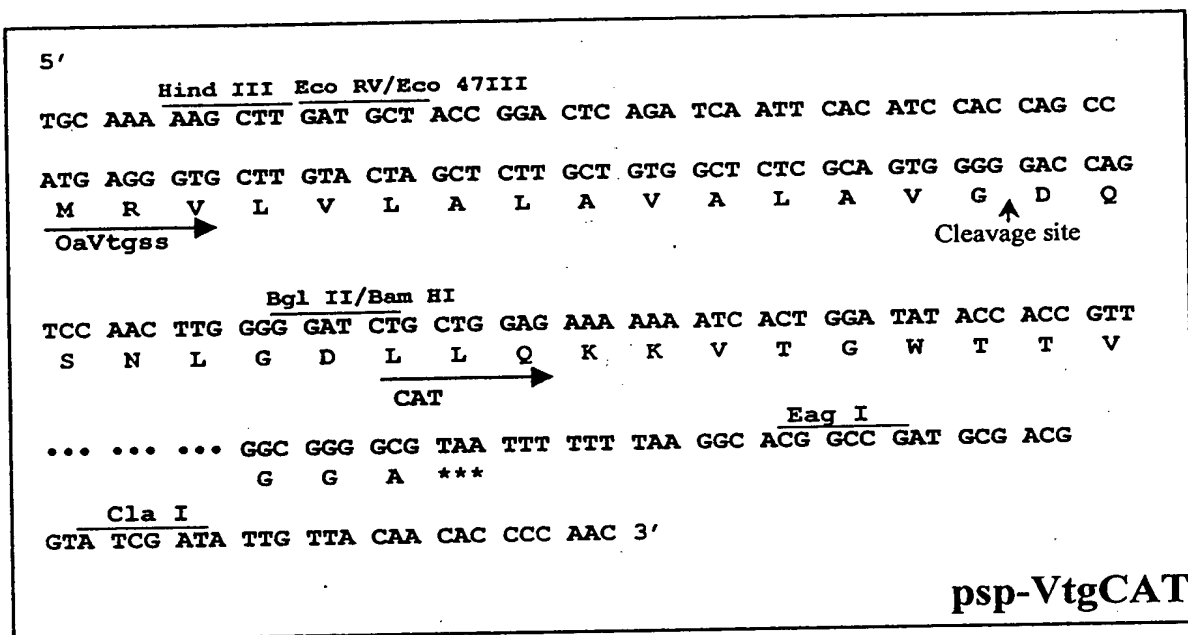


Fig. 5D

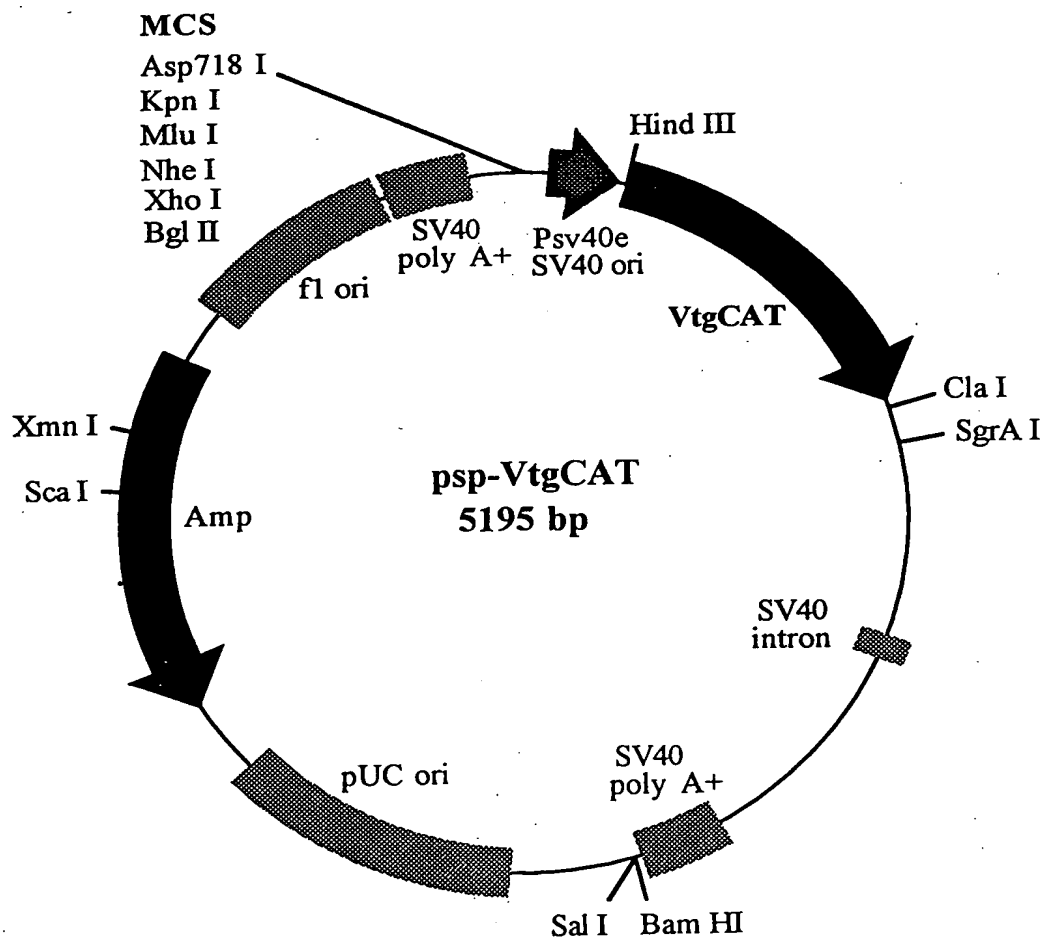


Fig. 5E

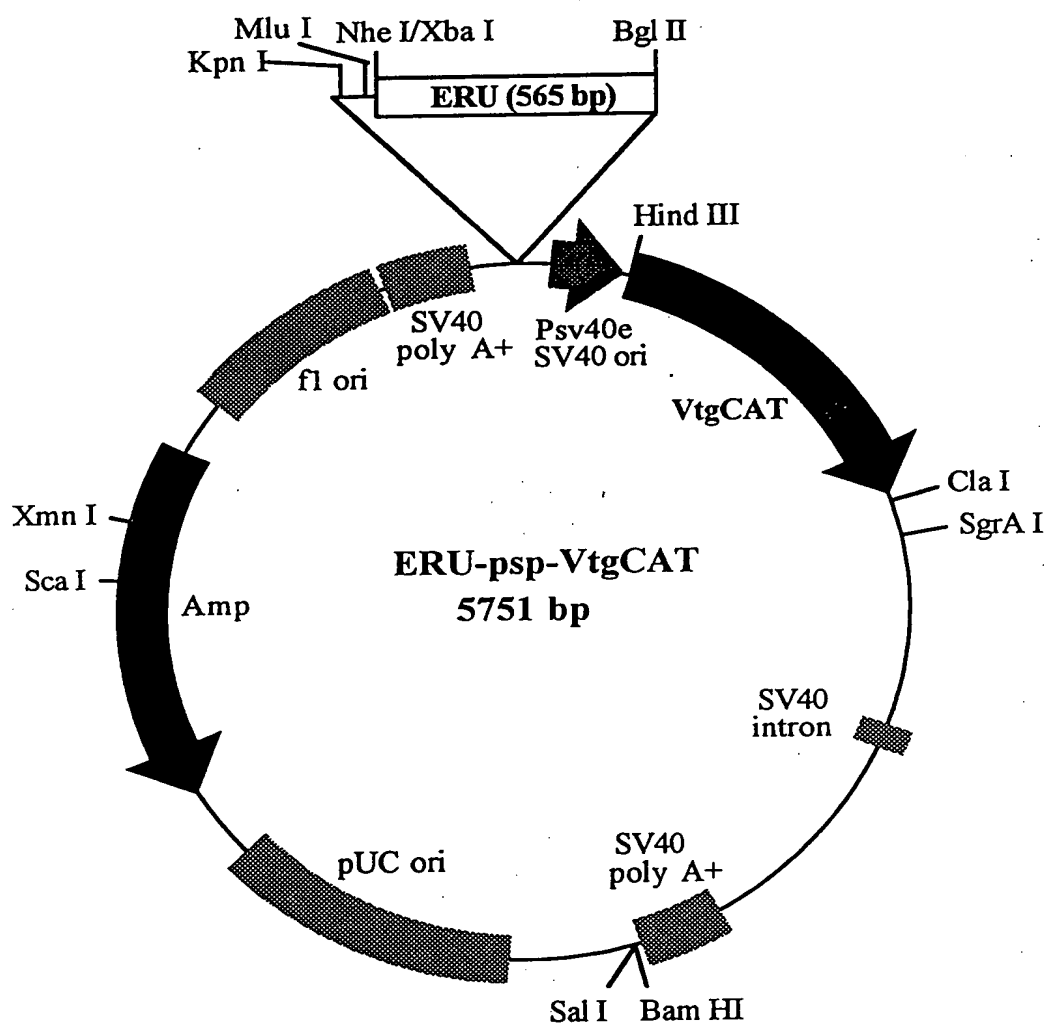


Fig. 5F

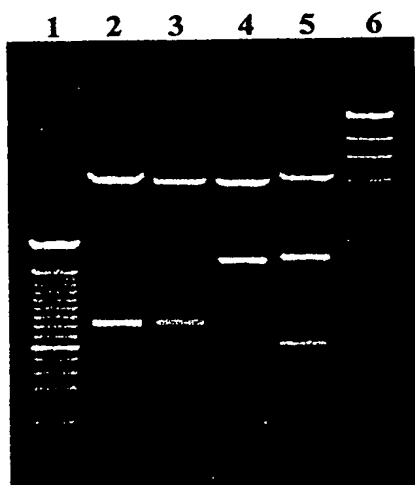
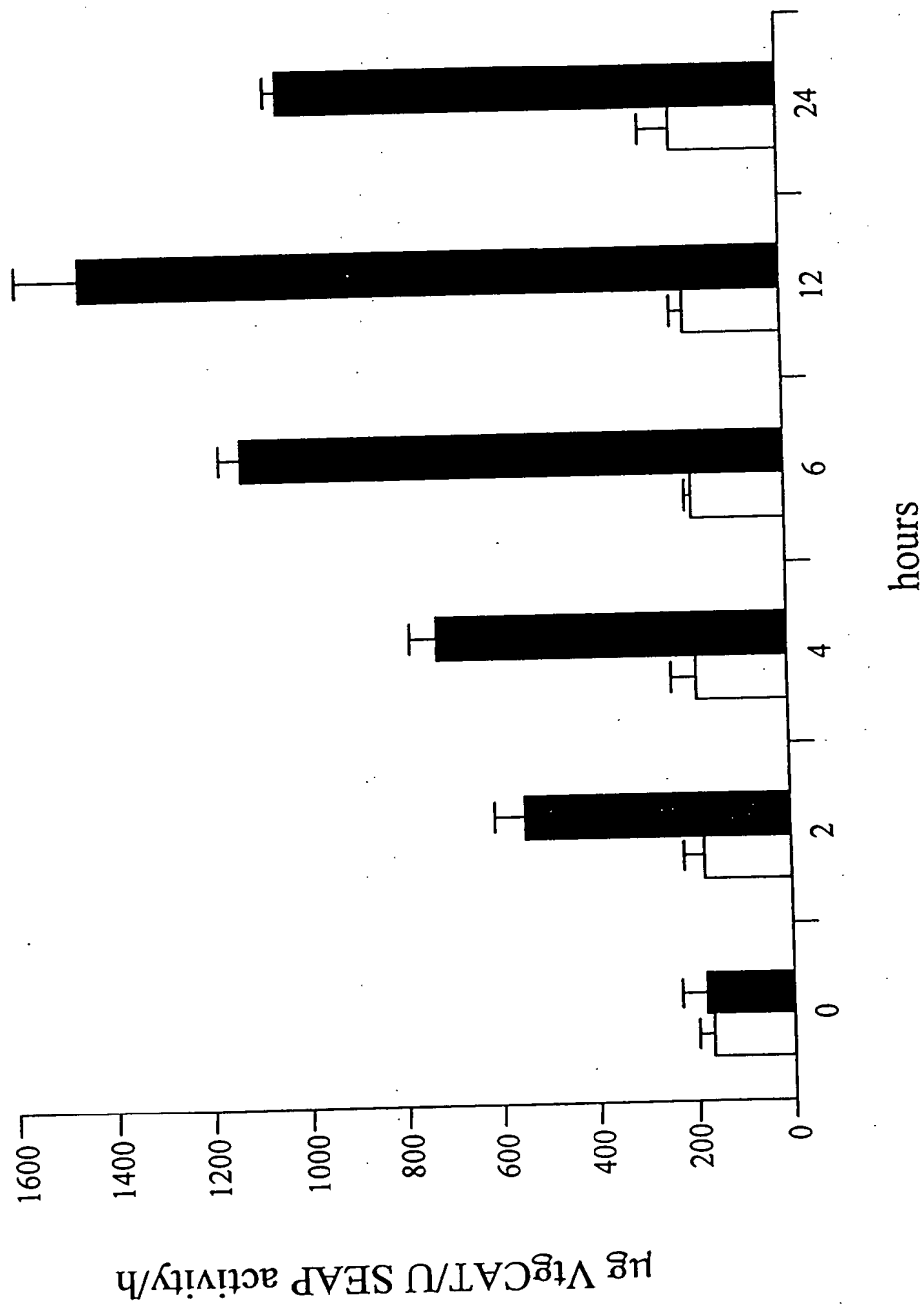


Fig. 56

Fig. 6



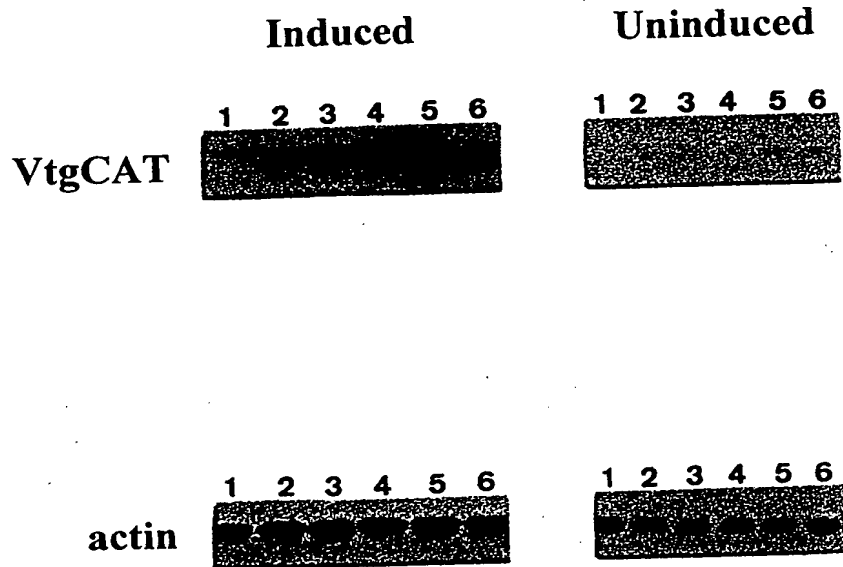


Fig.7

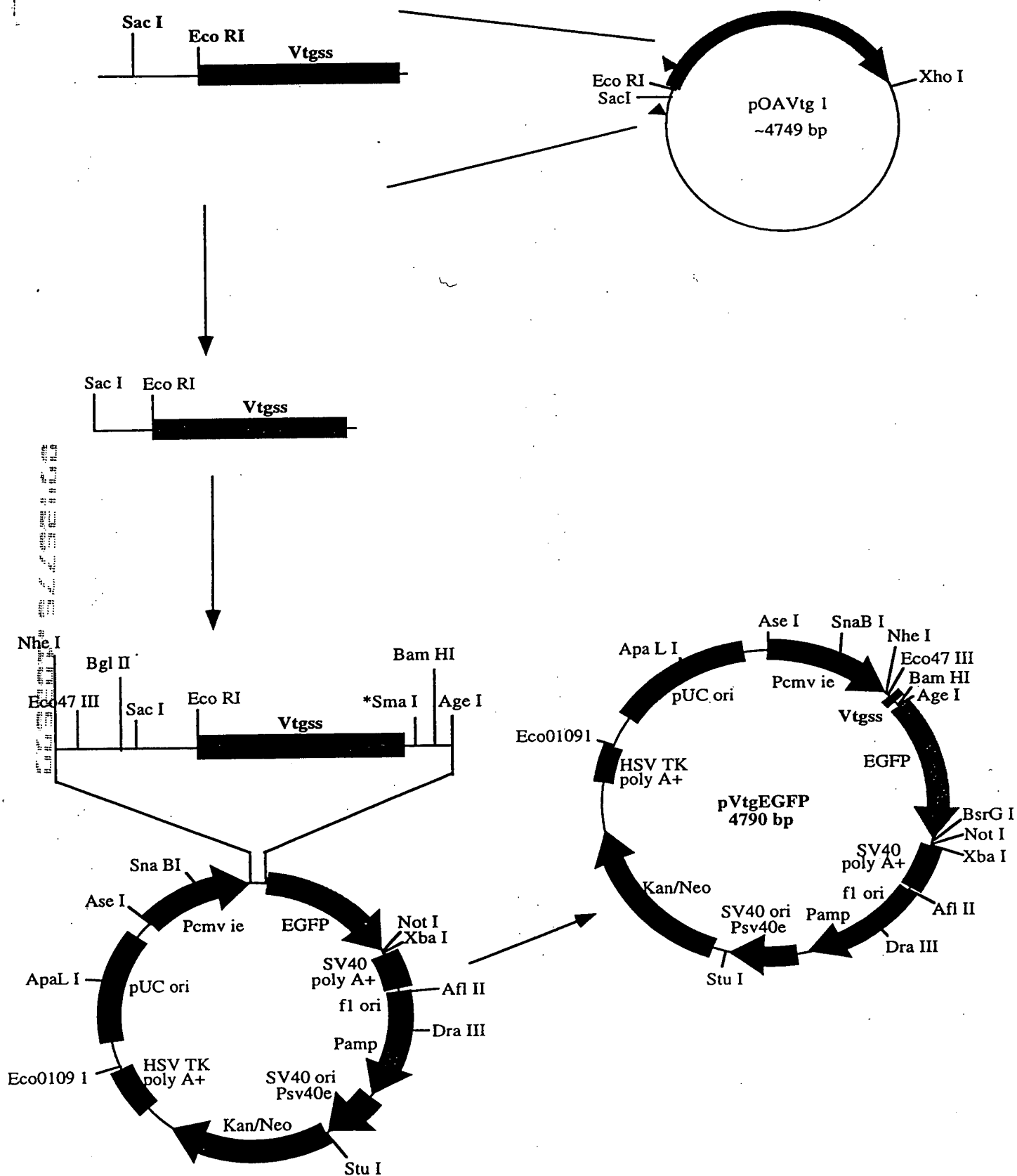


Fig. 8A

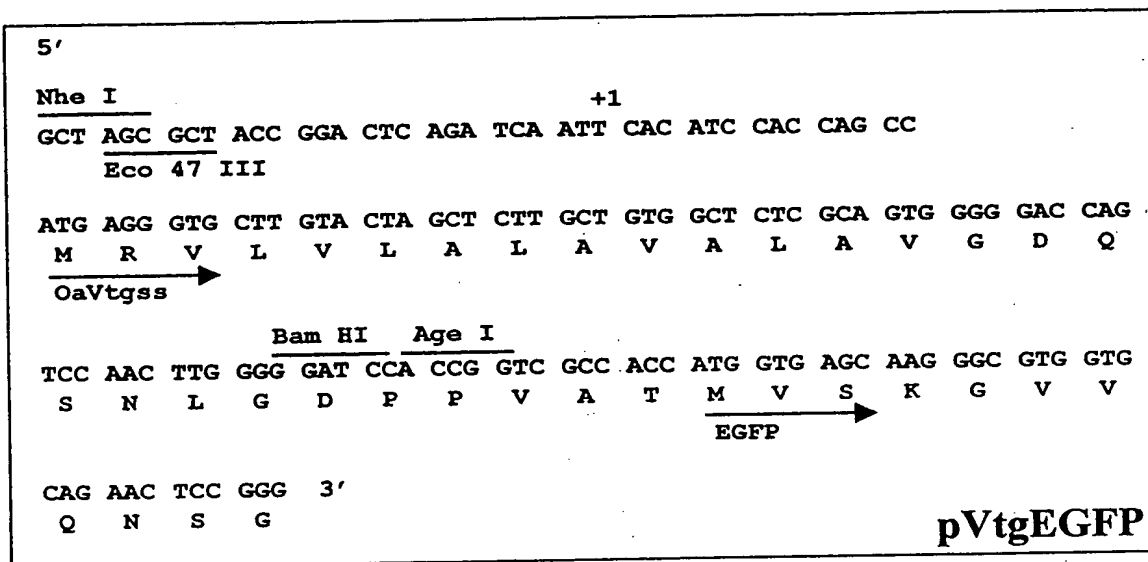


Fig. 8B

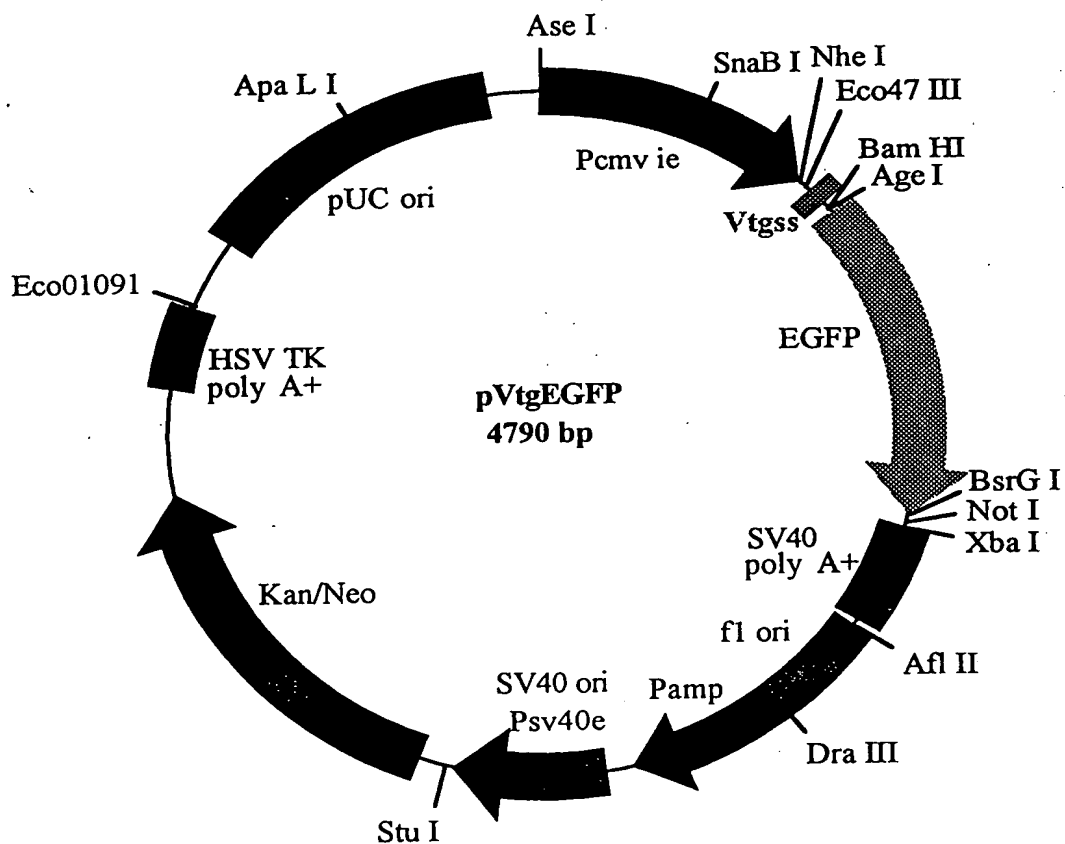


Fig. 8C

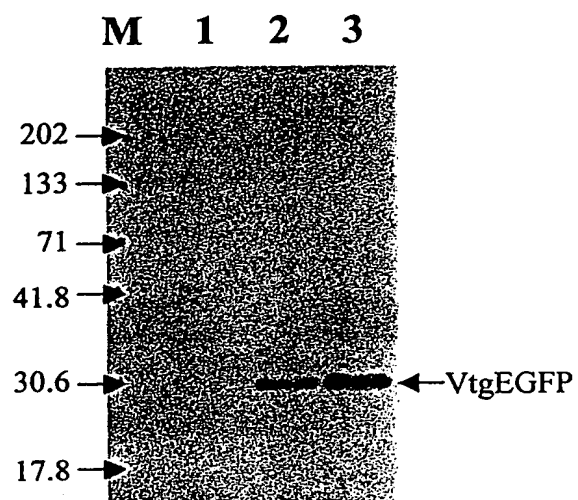
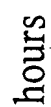


Fig. 8D



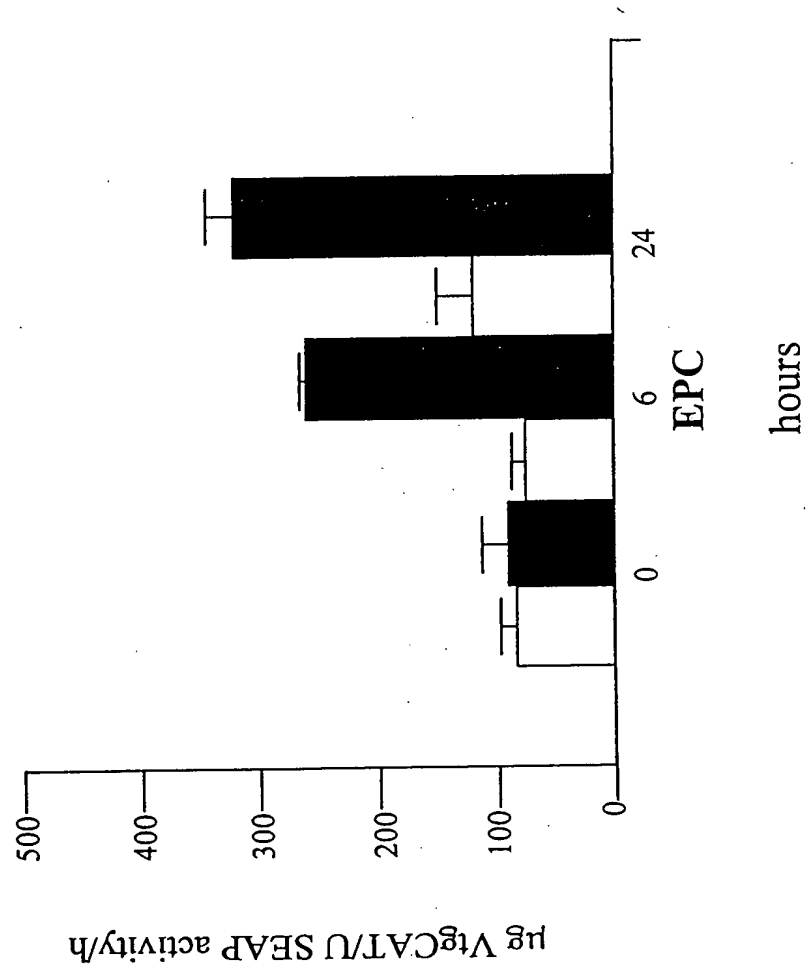


Fig. 10

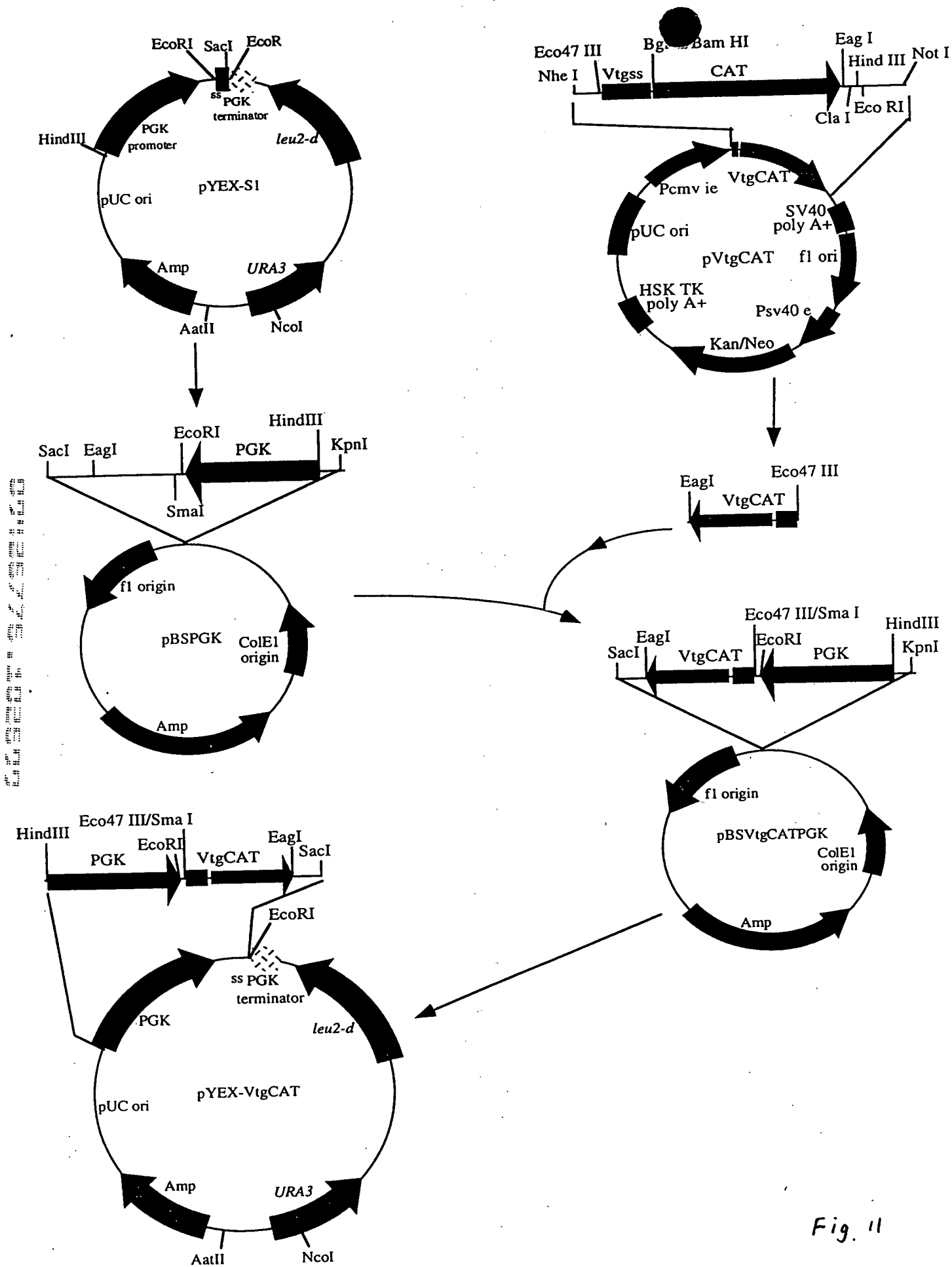


Fig. 11

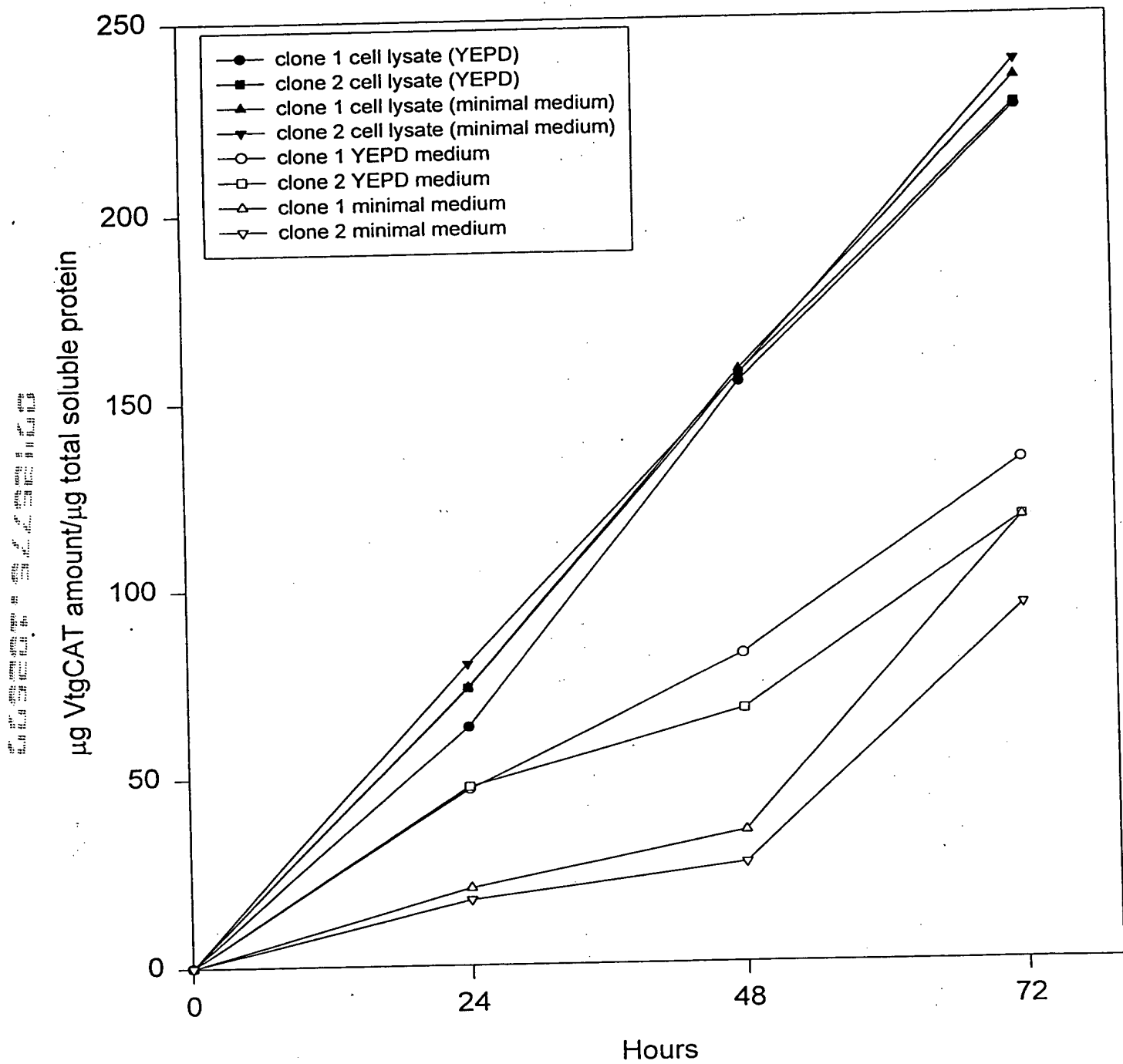


Fig. 12

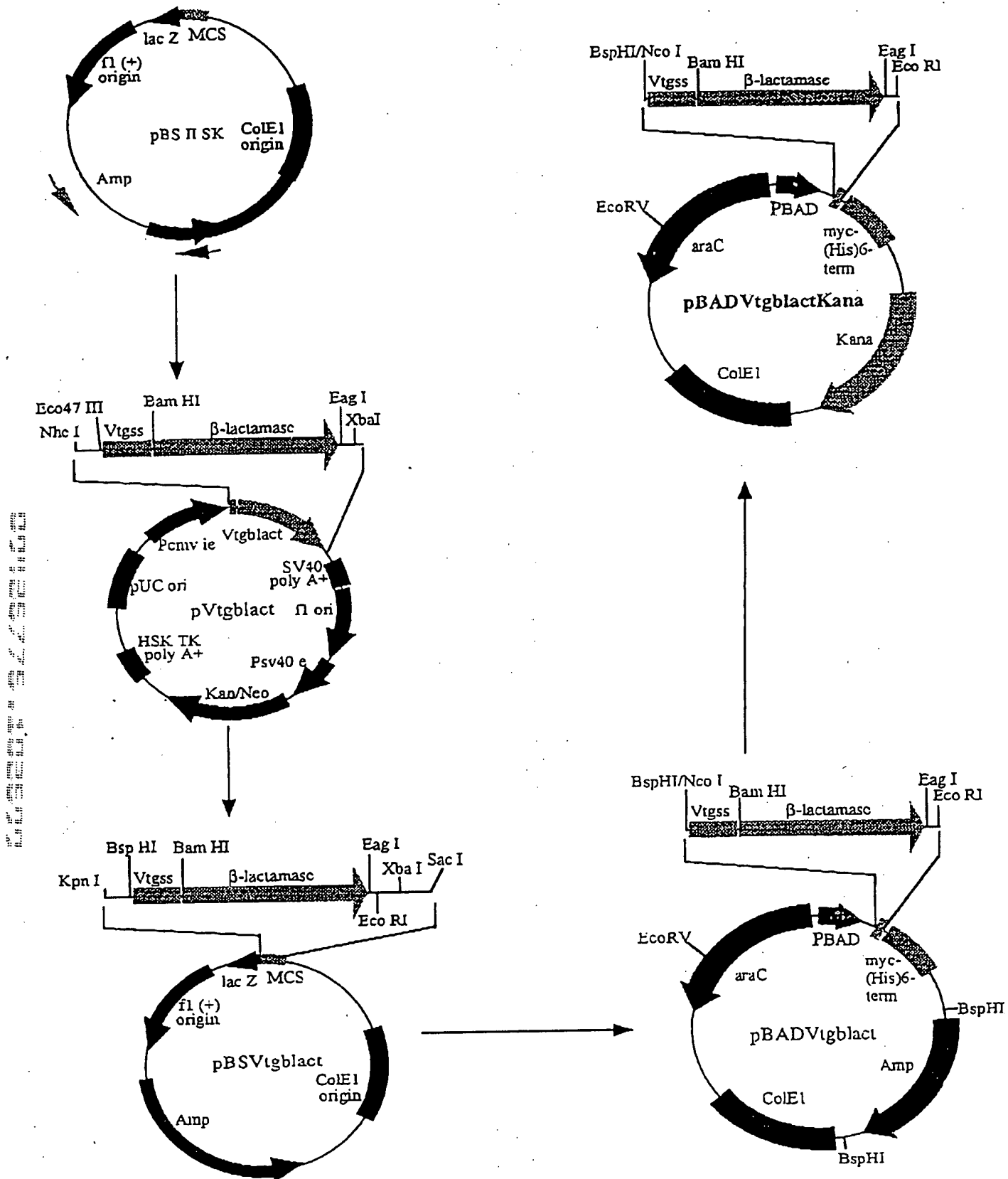


Fig. 13

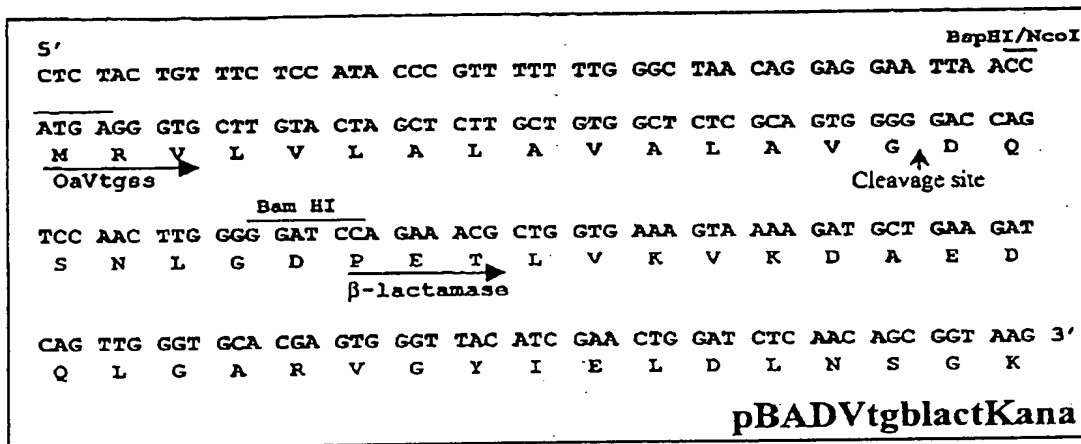


Fig 14A

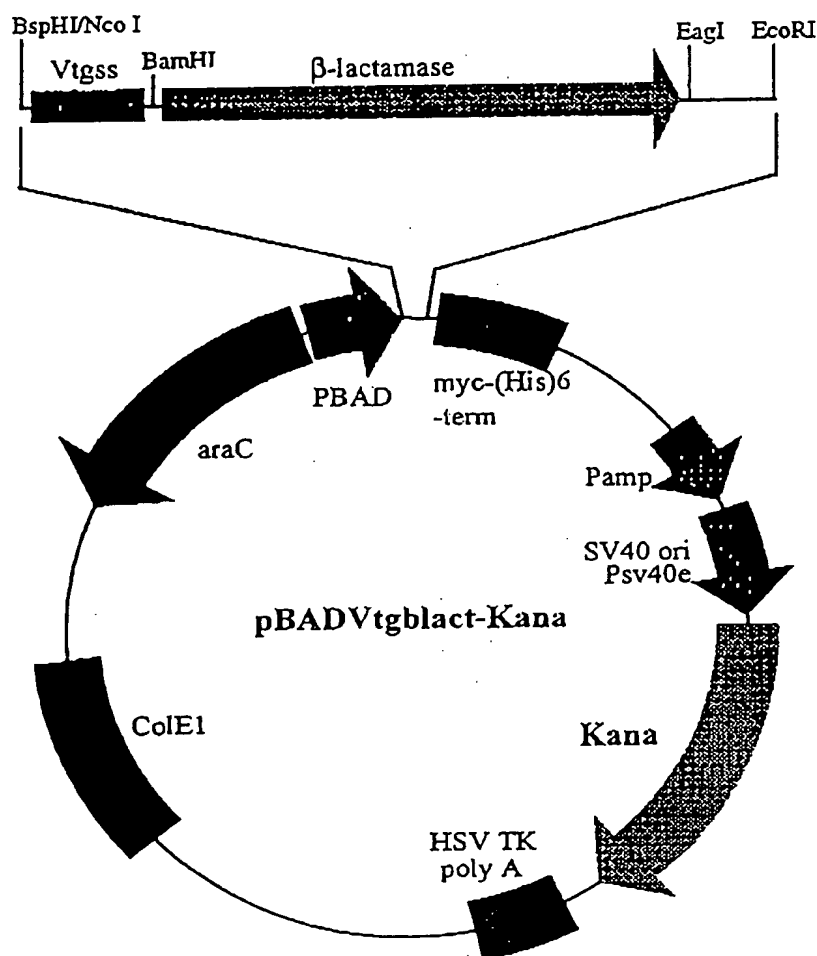


Fig. 14 B

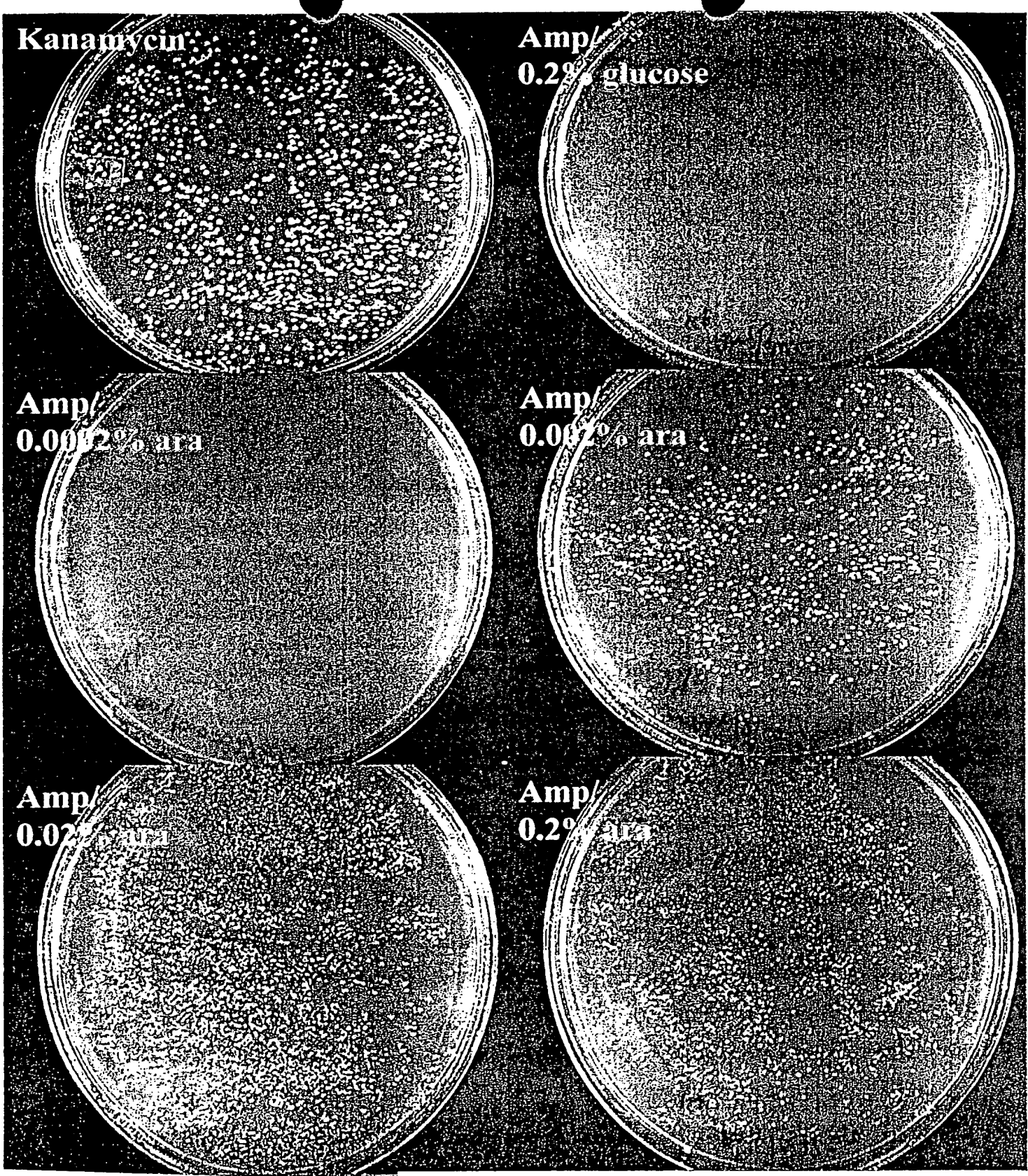


Fig. 15

Growth profile of bacteria after induction

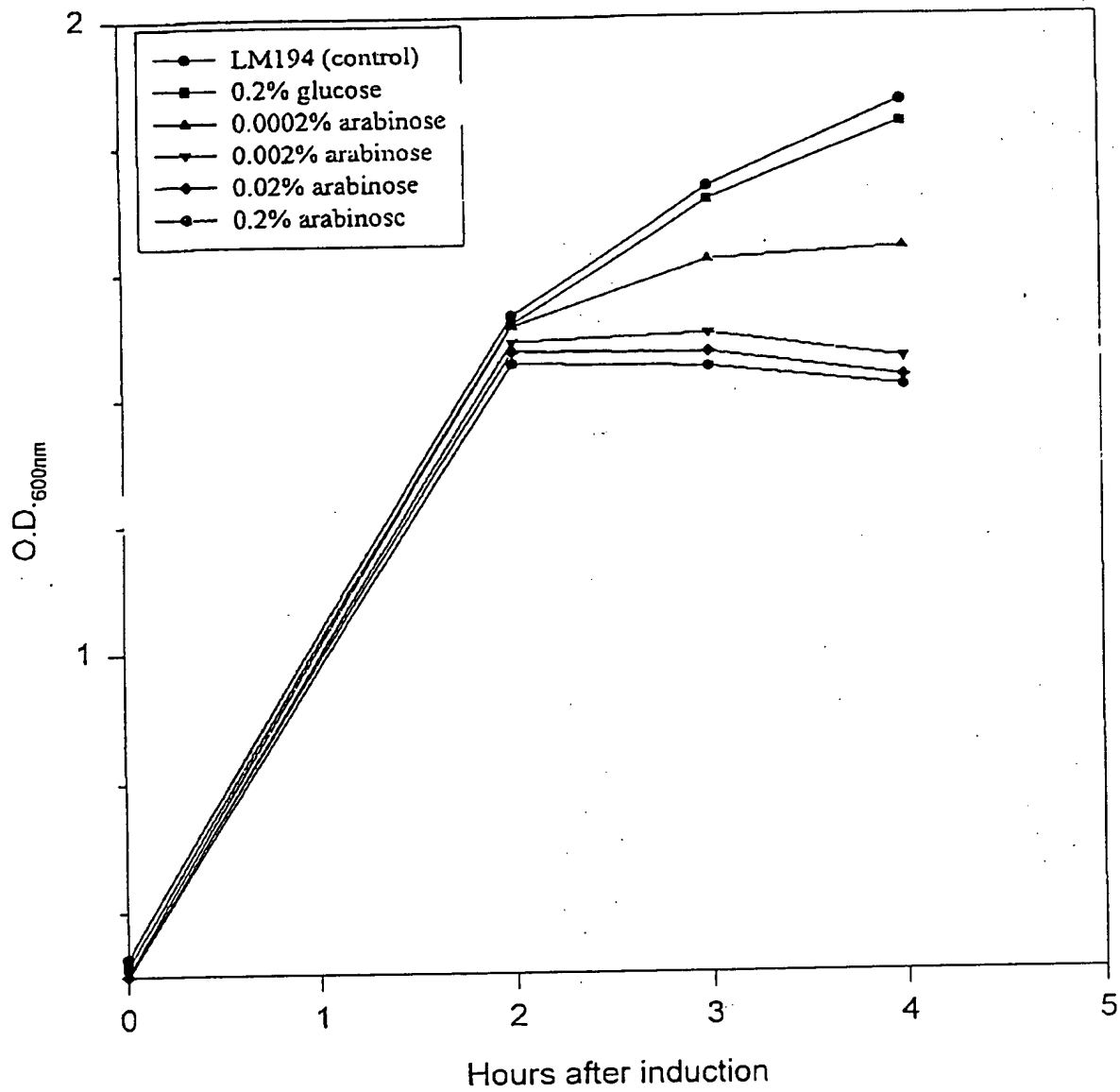


Fig. 16

β -lactamase in periplasmic space over time

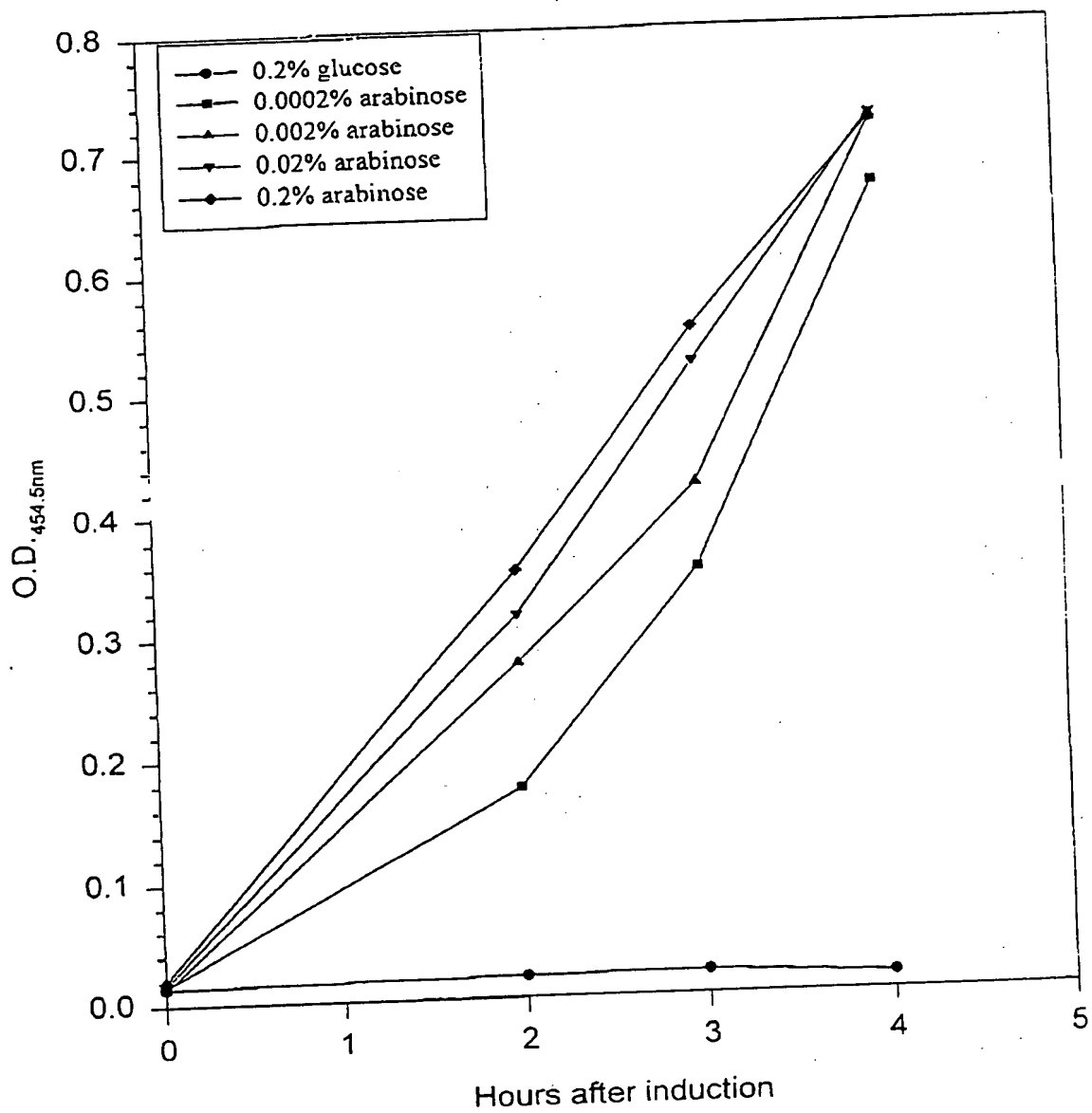


Fig. 17

β -lactamase in culture medium over time

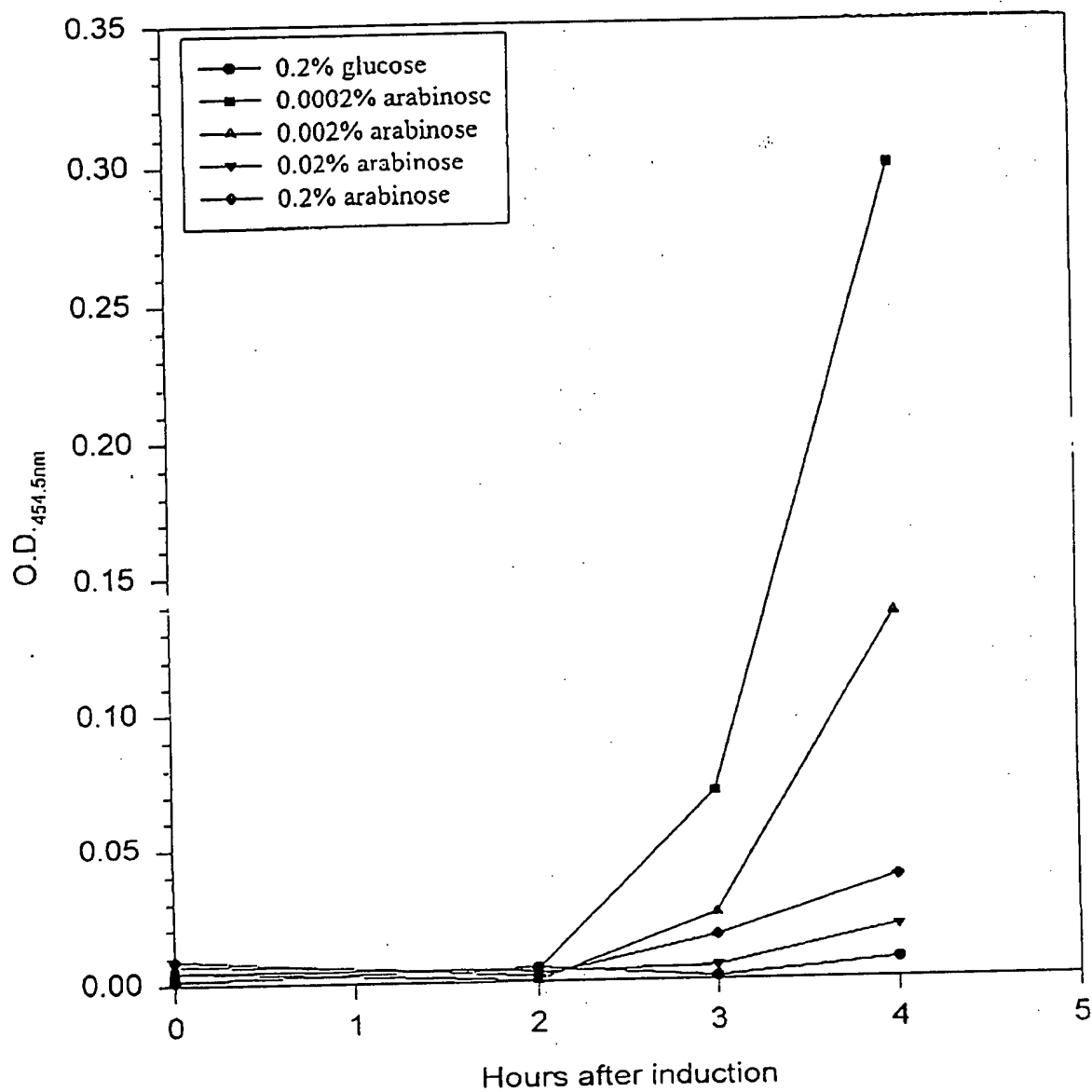


Fig. 18

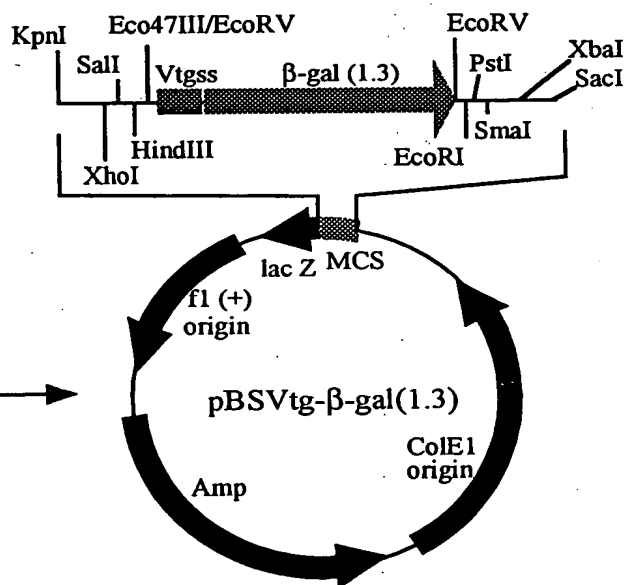
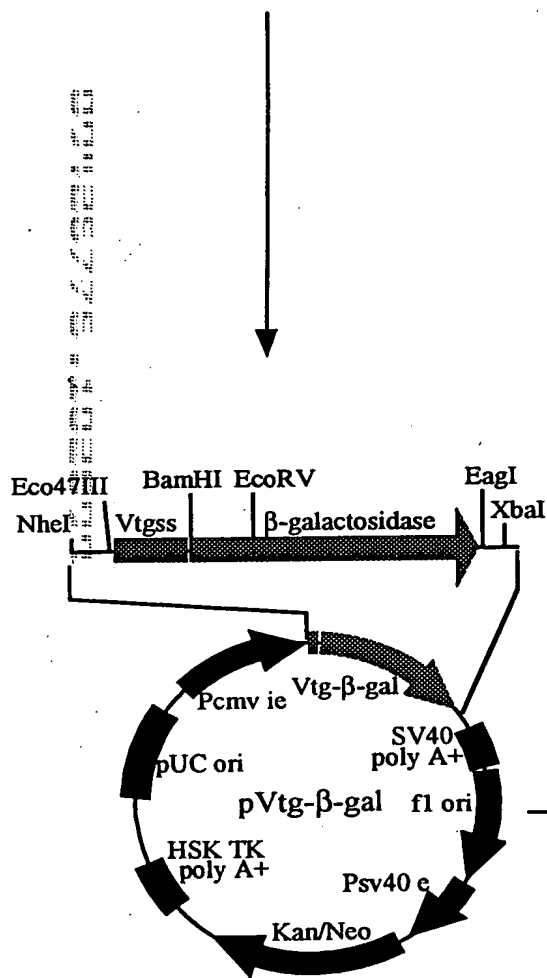
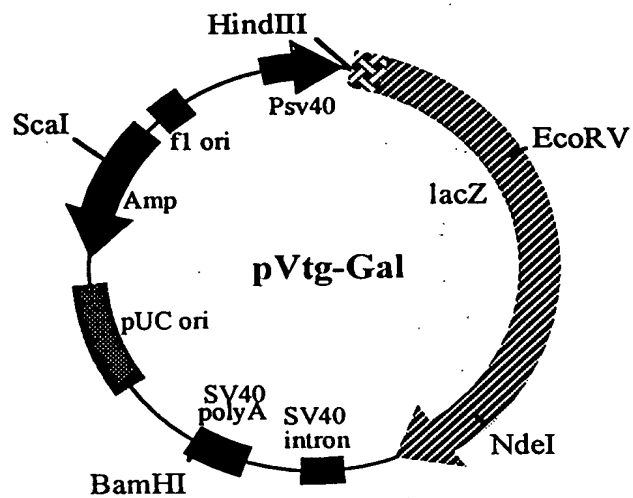
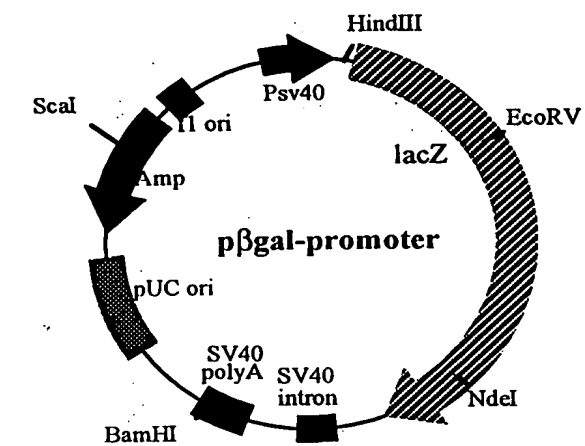


Fig. 19

Figure 21

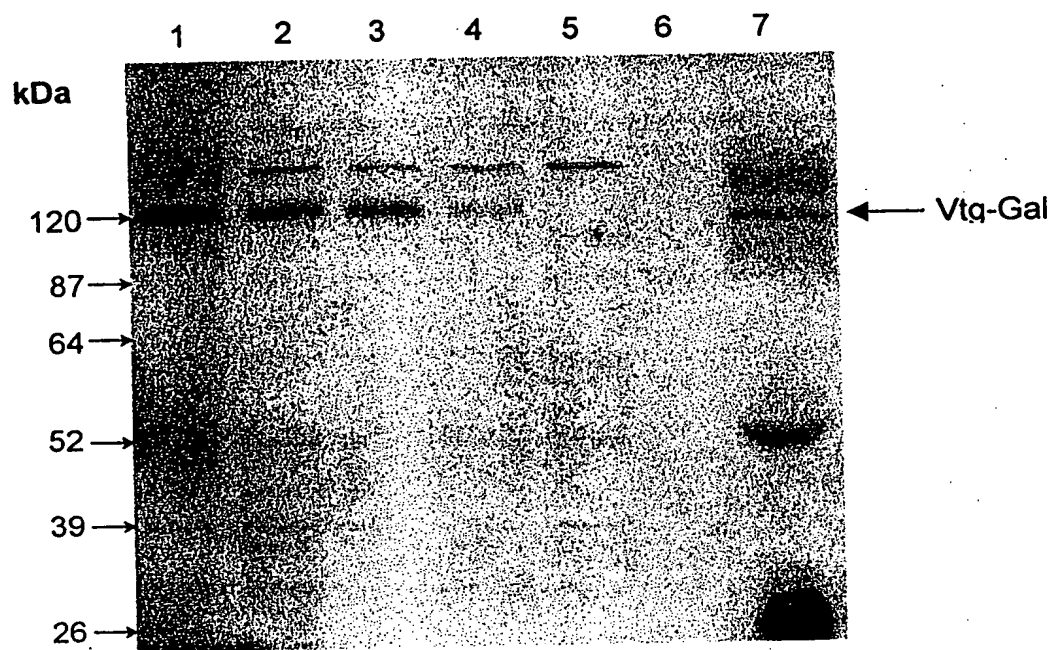


Fig. 20

Rate of Secretion

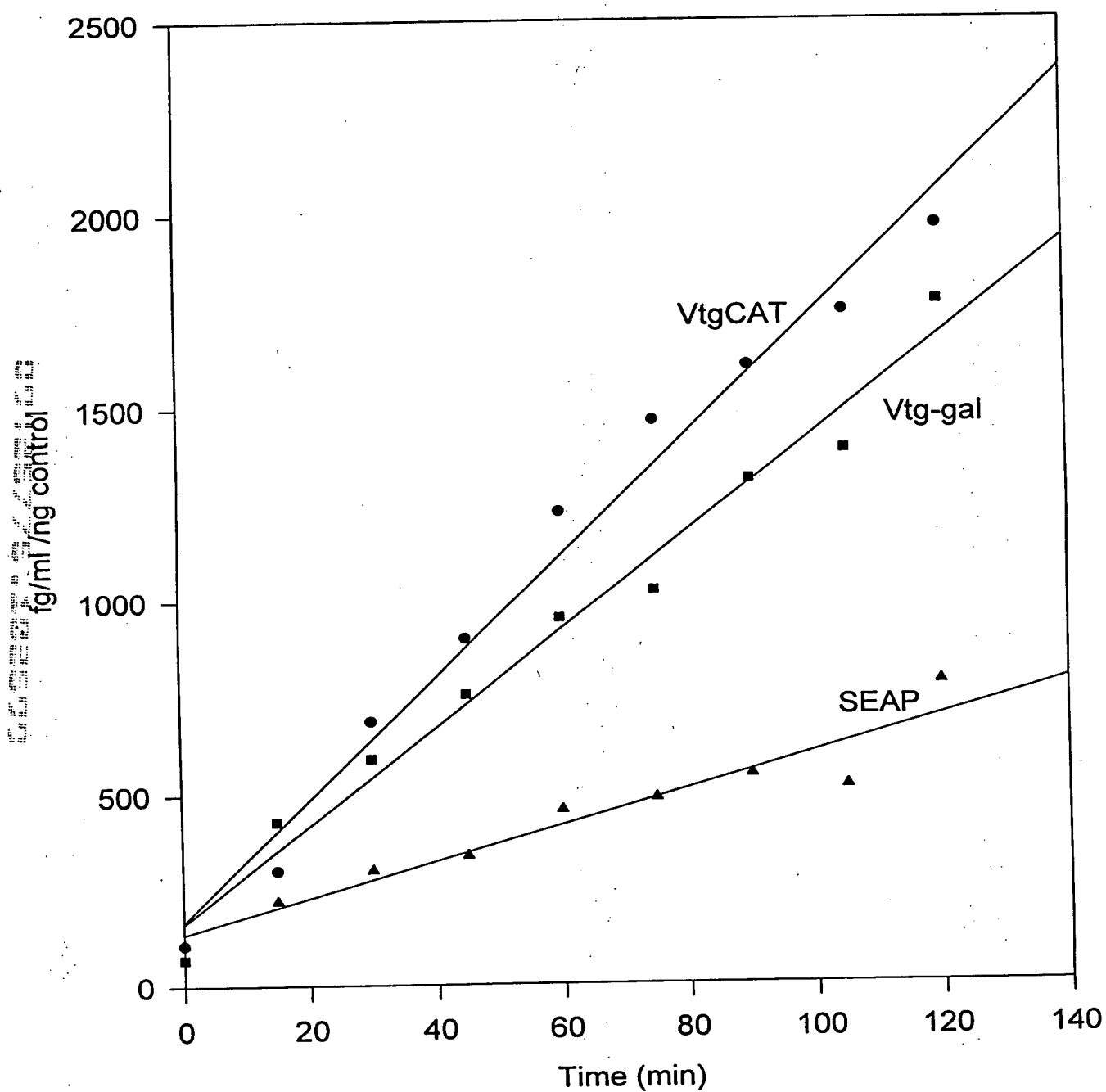


Fig. 21